# Kelly, Virginia

From: Wirick, Donna [Donna Wirick@kindermorgan.com]

Monday, May 05, 2008 11:05 AM

Sent: Monday, May 05, 2

To: Kelly, Virginia
Cc: Donald E. Jones

Subject: RE: Kinder Morgan SE Terminals VPDES permit application

Gina,

Sorry about the delay getting your answers on the asphalt operation.

KMST Richmond #2 receives the finished asphalt by barge into heated tanks. We only add water to the mixture in the tanks, and then additive at the loading rack.

There is no cooling water used or condensate collected for discharge.

Please let me know if you need additional information for the permit - my cell phone is probably best way to reach me for the next few weeks.

Thanks!

Donna L. Wirick
EHS Manager
Kinder Morgan Energy Partners
2000 Trenton Avenue
Richmond, VA 23234
804-743-5778 office
804-513-0719 cell
832-397-4755 fax

**From:** Donald E. Jones [mailto:djones@qualityenvironmental.net]

Sent: Thursday, May 01, 2008 4:21 PM

To: Kelly, Virginia Cc: Wirick, Donna

Subject: Re: Kinder Morgan SE Terminals VPDES permit application

Gina, I wanted to set the record straight on the hydrostatic test calculations. First of all, the "2.26" on the Terminal Data attachment was incorrect and should have been "1.37." A corrected page is attached. The flow data are based on an average of one hydrostatic test per year. 2007 was unusual with three tests as the ASTs were being placed into DOT service and the hydrostatic tests were required. I do not believe that there were tests in the previous two or more years. The 1.37 MG was based on the average capacity of all the facility ASTs > 420,000 gallons in size resulting in an average daily discharge of 0.004 MGD. The maximum discharge was based on a maximum discharge rate of 250 GPM. As for the data in Form 2C Question II.C, the average duration of the hydrostatic test discharge should be 4 days (not 10) based on the maximum discharge of 250 GPM. I hope this addresses the confusion. Thanks. Don.

---- Original Message ----- From: Kelly, Virginia

To: djones@qualityenvironmental.net Cc: donna\_wirick@kindermorgan.com

# Kelly, Virginia

From: Doi

Donald E. Jones [djones@qualityenvironmental.net]

Sent:

Thursday, May 01, 2008 4:21 PM

To:

Kelly, Virginia

Cc:

Donna Wirick

Subject: Re: Kinder Morgan SE Terminals VPDES permit application

Gina, I wanted to set the record straight on the hydrostatic test calculations. First of all, the "2.26" on the Terminal Data attachment was incorrect and should have been "1.37." A corrected page is attached. The flow data are based on an average of one hydrostatic test per year. 2007 was unusual with three tests as the ASTs were being placed into DOT service and the hydrostatic tests were required. I do not believe that there were tests in the previous two or more years. The 1.37 MG was based on the average capacity of all the facility ASTs > 420,000 gallons in size resulting in an average daily discharge of 0.004 MGD. The maximum discharge was based on a maximum discharge rate of 250 GPM. As for the data in Form 2C Question II.C, the average duration of the hydrostatic test discharge should be 4 days (not 10) based on the maximum discharge of 250 GPM. I hope this addresses the confusion. Thanks. Don.

---- Original Message -----

From: Kelly, Virginia

To: djones@qualityenvironmental.net Cc: donna\_wirick@kindermorgan.com Sent: Monday, April 21, 2008 5:35 PM

Subject: Kinder Morgan SE Terminals VPDES permit application

Hi Don,

I wanted to follow up on this permit application. Back in February, you submitted most of the effluent sampling we needed, but there was an issue with the pesticides so another round of sampling was going to be performed that week to get the data for those 7 parameters. Please submit that data as soon as possible.

Regarding the hydrostatic test waters flows, the calculations page indicates a flow of 2.26 MG per year under "Terminal Data" and 1.36 MG per year under "Hydrostatic Test Water." The actual calculations appear to be base on 1.36 MG per year. This page also assumes 1 hydrostatic test per year under "Terminal Data" but the narrative under "Hydrostatic Test Water" seems to indicate multiple tests per year (as supported by the data summary submitted). There's also some confusion regarding the entries in Form 2C, Question II.C as they relate to the calculations page. Please clarify these issues.

Also, some questions have been posed regarding the asphalt emulsion aspect of this facility. Could you review pages 13 – 15 of the attached Development Document (pages 21 - 23, according to Adobe) and confirm which parts of the asphalt emulsion process Kinder Morgan SE Terminals is involved in?

Thanks for your help in better understanding this facility's operations.

Gina Kelly Water Permitting DEQ, Piedmont Regional Office ph. 804.527.5048 fax 804.527.5106



Please consider the environment - do you really need to print this email?

# Kelly, Virginia

From:

Donald E. Jones [djones@qualityenvironmental.net]

Sent:

Wednesday, January 30, 2008 5:24 PM

Terminals - Richmond 2 Terminal VPDES permit renewal.

To:

Kelly, Virginia

Cc:

Donna Wirick

Subject: VPDES Permit No. VA0058378 Renewal

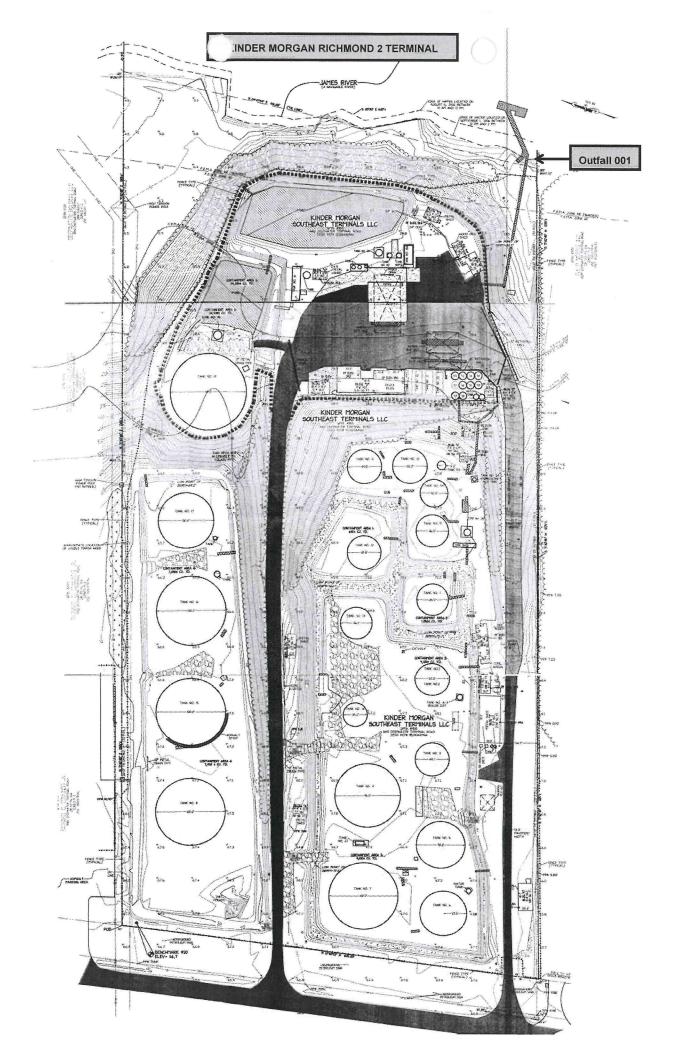
Ms. Kelly, this is in response to the January 8, 2008 request for additional information regarding the Kinder Morgan Southeast

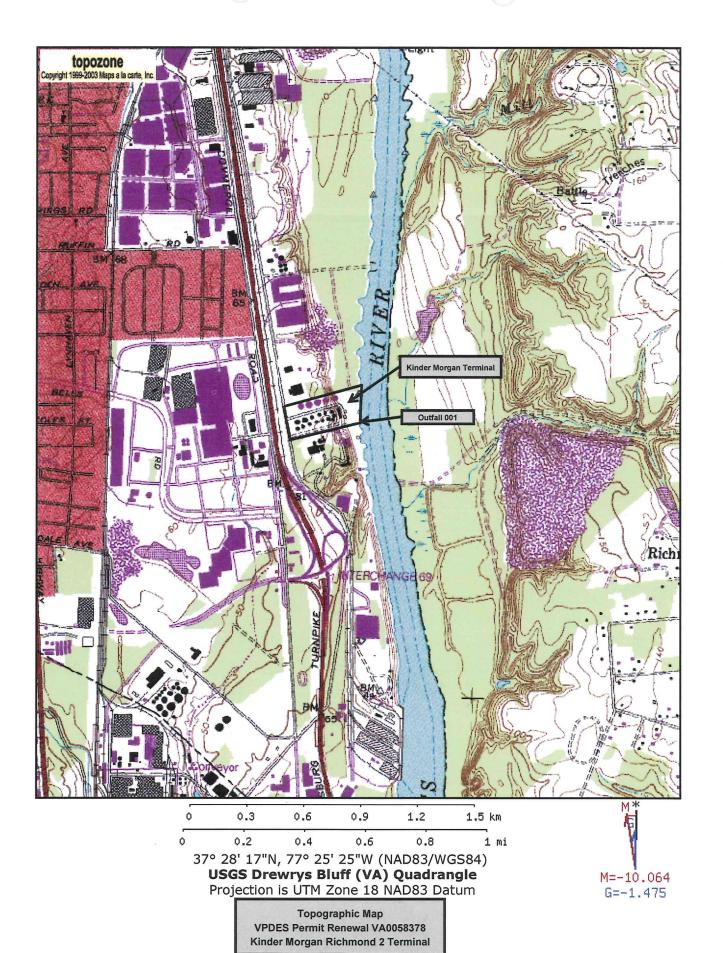
• A USGS topographic map and more detailed site topographic map are attached showing the location of Outfall 001 and the property boundaries.

- The primary applicable SIC code is 4226 (Terminal for Hire) with a secondary SIC code of 2951 (Asphalt Emulsion Products and Distribution). SIC code 5171 is no longer applicable.
- The facility does produce asphalt emulsions and blends.
- Waters directed to the pond include storm-water runoff, treated water from the rack area, non-contact cooling water, boiler blow down and air compressor condensate. There are no longer wash waters from the loading rack.
- The signed public notice authorization is being submitted by Donna Wirick under separate cover.
- The additional outfall sampling was completed on January 24, 2008. Attachment A will be completed and signed once the results from the various laboratories are received.

Please contact me or Donna Wirick with any questions or additional information needs. Thanks. Don.

Donald E. Jones Quality Environmental Solutions, Inc. 2521 Riva Road, Suite L3 Annapolis, Maryland 21401 410-841-5552 410-266-5588 (fax)





QUALITY ENVIRONMENTAL SOLUTIONS, INC.

2521 RIVA ROAD, SUITE L3 ANNAPOLIS, MARYLAND 21401

December 14, 2007

Mr. Curt Linderman Virginia Department of Environmental Quality Piedmont Regional Office 4949 Cox Road Glen Allen, Virginia 23060 RECEIVED
DEC 182007
PRO

SUBJECT: VPDES Permit No. VA0058378 Renewal Application Kinder Morgan Richmond 2 Terminal

Dear Mr. Linderman:

On behalf of Kinder Morgan Southeast Terminals, LLC, Quality Environmental Solutions, Inc. (QES) is pleased to submit one original and three copies of the renewal application for VPDES Permit No. VA0058378. The permit renewal application package includes:

- ♦ EPA Form 1 General Information (2 pages)
- ♦ EPA Form 2C Existing Manufacturing, Commercial, Mining and Silviculture Operations (13 pages)
- ♦ EPA Form 2F Application for Permit to Discharge Storm Water Discharges Associated with industrial Activity (5 pages)
- Topographic Map
- Site Plan
- ♦ Line Drawing and Water Balance
- ♦ Table of Terminal Data
- Tabulated Analytical Data

Please review the permit application and contact the undersigned or Ms. Donna Wirick of Kinder Morgan at 804-743-5778 with any questions or comments.

Sincerely,

Donald E. Jones

Senior Program Manager

Attachment: VPDES Renewal Application

Cc: D. Wirick – Kinder Morgan
D. Hildreth – Kinder Morgan

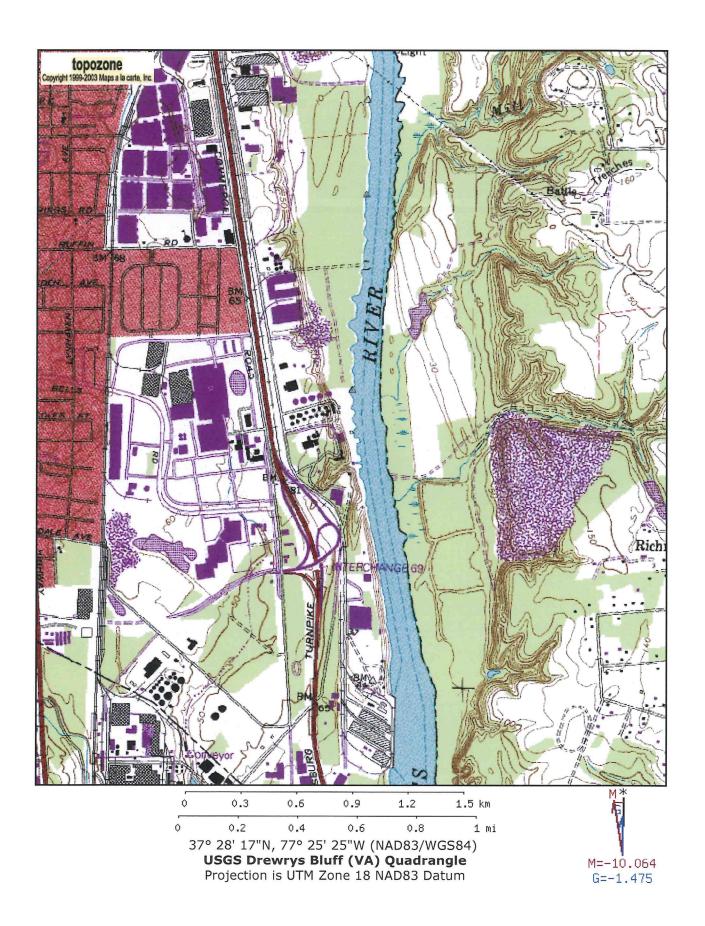
QES File 109-010

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Form Approved. OMB No. 2040-0086.

FORM		U.S. ENVIRO						I. EPA I.D. NUMBER			
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I. EPA I.D. N	NUMBER							designated space. Review the inform is incorrect, cross through it and ent appropriate fill-in area below. Also, if	er the	correct	data in the
III. FACILITY	NAME	PLEASE	PLAC	CE LAI	BEL IN THIS	IS S	PACE	is absent (the area to the left of information that should appear), plea	the lab se prov	el spac ide it in	the proper
V. FACILITY ADDRESS								fill-in area(s) below. If the label is of need not complete Items I, III, V, a must be completed regardless). Comhas been provided. Refer to the instance.	nd VI ( nplete a truction	except all items s for de	VI-B which if no label etailed item
VI. FACILITY	LOCATION							descriptions and for the legal authordata is collected.	rizations	under	which this
II. POLLUTANT	CHARACTERIS	TICS									
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	SPECIFIC QU	ESTIONS	YES	Mark NO	FORM ATTACHED		SPECIFIC	QUESTIONS	YES	Mark NO	FORM ATTACHED
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	ll this facility tr vastes? (FORM 3	reat, store, or dispose of 3)		X		F.	municipal effluent belo	oct at this facility industrial or ow the lowermost stratum uarter mile of the well bore,		×	
			28	29	30	L	underground sources of dr		31	32	33
or other flui connection w inject fluids u gas, or injec	ids which are lith conventional dused for enhance	s facility any produced water brought to the surface in oil or natural gas production, and recovery of oil or natural ge of liquid hydrocarbons?		×		H.	processes such as mining	at this facility fluids for special of sulfur by the Frasch process, als, in situ combustion of fossil rmal energy? (FORM 4)		×	
(FORM 4)		lanani saina inkiskis sais	34	35	36	+	to this facility a second	J _4_4!	37	38	39
of the 28 indu	ustrial categories otentially emit 10	ionary source which is one listed in the instructions and 00 tons per year of any air		×		J.	NOT one of the 28 indinstructions and which wi	d stationary source which is ustrial categories listed in the II potentially emit 250 tons per		×	
		Clean Air Act and may affect area? (FORM 5)	40	41	42			egulated under the Clean Air Act cated in an attainment area?	43	44	45
III. NAME OF F											
·	nder Morg	gan Southeast Te	ermi	nal	s - Ri	Lch	nmond 2				
15 16 - 29 30	201174.07				N	. 24			69		
IV. FACILITY C	CONTACT	A. NAME & TITLE (last,	Guat	e sistal	300			B. PHONE (area code & no.)			
	David, T					I		(804) 230-9366			
V.FACILTY MAI	LING ADDRESS		100	-1-2	- WI (7 - 1-2	TO P	45 4	6 48 49 51 52- 5	5		
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c   1     3   4110 De	eepwater :	Terminal Road		Î		I	45				
15   16		B. CITY OR TOWN						D. ZIP CODE			
c Richmon	nd		I				VA 23	3234			
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c Richmor	id I I I	C. CITY OR TOWN				T		E. ZIP CODE F. COUNTY CO	ODE (i	f know)	1)

CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority)  A. FIRST	B. SECOND
C (specify) Terminal for Hire	T N/A (specify)
7 4226	
15 16 - 19 C. THIRD	15 16 - 19 D. FOURTH
c (specify)	C       (specify)
7 N/A	
VIII. OPERATOR INFORMATION	15 16 - 19
A. NAME	B. Is the name listed in Item
8 Kinder Morgan Southeast Terminals, LLC	VIII-A also the owner?
15 16	
C. STATUS OF OPERATOR (Enter the appropriate letter into the	answer box: if "Other," specify.)  D. PHONE (area code & no.)
E = EEDERAL (su	pecify)
S = STATE	A (770) 751-4000
P = PRIVATE	15 6 - 18 19 - 21 22 - 26
E. STREET OR P.O. BOX	
1100 Alderman Drive, Suite 200	
26	55
F. CITY OR TOWN	G. STATE   H. ZIP CODE   IX. INDIAN LAND
B Alpharetta	GA 30005 IT YES IZ NO
15 16	GA 30005 ☐ YES ☑ NO
X. EXISTING ENVIRONMENTAL PERMITS	47 47 37 31
	nissions from Proposed Sources)
	133013 JOHN 1 10 posed Boar Cesy
9 N   VA0058378 $ 9 P $  N/A	
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
9 U N/A VA50533	specify) Air Registration
15 16 17 18 30 15 16 17 18	30
C. RCRA (Hazardous Wastes)	E. OTHER (specify)
	(specify)
3 11 1	
15   16   17   18   30   15   16   17   18   XI, MAP	30
	will be used a search be used in The use and the Unit of the City of
location of each of its existing and proposed intake and discharge structures, each of	mile beyond property boundaries. The map must show the outline of the facility, the of its hazardous waste treatment, storage, or disposal facilities, and each well where it
injects fluids underground. Include all springs, rivers, and other surface water bodies	in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description)	
Storage and distribution terminal for bulk petroleum pro	oducts including gasoline, ethanol, naphtha, petroleum
distillates kerosene, diesel fuel and heating oil, and a	
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with the inquiry of those persons immediately responsible for obtaining the information contains am aware that there are significant penalties for submitting false information, including	he information submitted in this application and all attachments and that, based on my ined in the application, I believe that the information is true, accurate, and complete. I g the possibility of fine and imprisonment.
A. NAME & OFFICIAL TITLE (type or print)  B. SIGNATURE	C. DATE SIGNED
David Hildreth	O. DATE SIGNED
Director, Field Operations	PiAldrew 12/14/2007
tun	7 1 Tolor
COMMENTS FOR OFFICIAL USE ONLY	
C	



EPA I.D. NUMBER (copy from Item 1 of Form 1)

VAD041317876

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM 2C



Please print or type in the unshaded areas only.

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

01	ITE AL	 OATION	
		CATION	

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Tor caon catian, not the	latitude and	longitude of it	o location to t	ine nearest re	o occorras arre	a the harne of	the receiving water.
A. OUTFALL NUMBER		B. LATITUDE		C	. LONGITUD	E	
(list)	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	37	28	16	77	25	25	James River

### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) C	ONTRIBUTING FLOW	3. TREATMENT		
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO TABL	DES FROM E 2C-1
001	Facility Storm Water	0.18 MGD	Settling pond	1-U	
	Loading Rack Storm Water	0.001 MGD	Separation, activated clay & carbon filtration	1-C	2-A
	Hydrostatic Test Water	0.004 MGD	Settling pond	1-U	
	Note: Flows are intermittent				
					-

OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUED FF	ROM THE FRONT										
	torm runoff, leaks, or s		of the di	scharges de	scribed in I			asonal?			
	YES (complete the follo	owing table)			L	NO (go to Sec	ction III)				
						EQUENCY			4. FLOW	L VOLUME	
4 0075411		PERATION(s)		a	DAYS PER WEEK	b. MONTHS	a. FLOW R	ATE (in mgd)	(specify	with units)	
1. OUTFALL NUMBER (list)	CONTI	RIBUTING FLO (list)	VV		(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TER AVERAGE	M 2. MAXIMU DAILY	JM C. DURATIO (in days)
001	Hydrostatic Test	: Water		2	.5	1	0.004	0.36	1.37 MG/year	0.36 MG	10
III. PRODUCTIO											
A. Does an efflu	uent guideline limitation YES (complete Item III-		d by EPA	A under Sect	ion 304 of t	the Clean Water  NO (go to Sec		ur facility?			
B Are the limits	ations in the applicable		eline exr	pressed in te	rms of proc			eration\?			
	YES (complete Item III-	-C)	•			NO (go to Sec	tion IV)	,			
C. If you answe	ered "yes" to Item III-B ffluent guideline, and i	, list the quar	ntity which	ch represent	s an actua	I measurement of	of your level of	production, ex	pressed in the	terms and u	inits used in the
applicable e	muent guideline, and n			E DAILY PRO	DDUCTION	1			0.45		ITEALL O
a. QUANTITY	PER DAY b. UNIT	S OF MEASL	JRE	C.	OPERATI	ON, PRODUCT,	MATERIAL, E	TC.		FECTED OU list outfall num	
						(specify)					
	^										
								The Control West			21
IV. IMPROVEM		danal Ctata		a dhaite ta							
treatment ed	w required by any Fe quipment or practices of tions, administrative or YES (complete the follo	or any other e enforcement	nvironm	ental program	ms which n t complian	nay affect the dis	scharges descri rs, stipulations	bed in this app	lication? This i	includes, but	is not limited to
	TION OF CONDITION, EMENT, ETC.	2. AF	FECTE	O OUTFALLS	5	3. BRIEF	DESCRIPTION	OF PROJECT	г 4.	FINAL COM	PLIANCE DATE
AGNE	LIMEIVI, ETO.	a. NO.	b. SOU	RCE OF DISC	HARGE				a.	REQUIRED	b. PROJECTED
	You may attach addi you now have underwa										
construction.								,	, , , , , , , , , , , , , , , , , , , ,	promite	
	MARK "X" IF DESCRI	PTION OF A	ODITION	NAL CONTR	OL PROGE	RAMS IS ATTAC	HED				

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

EPA I.D. NUMBER (copy from Item 1 of Form 1)

VAD041317876

CONTINUED FROM PAGE 2	VAD041317876		
V. INTAKE AND EFFLUENT CHARACTER	RISTICS		是是特殊的學科學學學
A, B, & C: See instructions before procee NOTE: Tables V-A, V-B, and \	ding – Complete one set of tables for each /-C are included on separate sheets numbe	outfall – Annotate the outfall n red V-1 through V-9.	umber in the space provided.
D. Use the space below to list any of the from any outfall. For every pollutant yo	pollutants listed in Table 2c-3 of the instructure list, briefly describe the reasons you believe	ctions, which you know or have we it to be present and report a	e reason to believe is discharged or may be discharged any analytical data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Xylene	Component of gasoline (see attached table with analytical results)		
VI. POTENTIAL DISCHARGES NOT COV		<b>建版,图图</b> 有	2. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19
	nce or a component of a substance which y	ou currently use or manufactu	re as an intermediate or final product or byproduct?
YES (list all such pollutants	below)	NO (go to Item VI-B)	

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DAT	A CONTRACTOR OF THE PROPERTY O		
Do you have any knowledge or reason to be relation to your discharge within the last 3 years.	lieve that any biological test for acute or chronic toxic	ty has been made on any of your di	ischarges or on a receiving water in
YES (identify the test(s) and de		NO (go to Section VIII)	
	g is completed in accordance with t ve test solutions are completed ann		
12/07 test results not yet a 12/06 48-hour LC50 for c. di 12/05 48-hour LC50 for c. di	ubia was > 100%		
VIII. CONTRACT ANALYSIS INFORMATION		一句是是 在是是 下。 "这	
Were any of the analyses reported in Item V	performed by a contract laboratory or consulting firm?	?	
YES (list the name, address, an each such laboratory or fin	nd telephone number of, and pollutants analyzed by, rm below)	NO (go to Section IX)	
a de verconent			
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
A. NAME	B. ADDRESS  500 Ambassador Caffery Parkway Scott, LA 70583		
to now a sales and definition	500 Ambassador Caffery Parkway	(area code & no.)	(list)  Laboratory Analytical
SPL, Inc.  EA Engineering, Science &	500 Ambassador Caffery Parkway Scott, LA 70583 15 Loveton Circle	(area code & no.)	(list)  Laboratory Analytical (04/06 to present)
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental	500 Ambassador Caffery Parkway Scott, LA 70583 15 Loveton Circle Sparks, MD 21152 2521 Riva Road, Suite L3	(area code & no.) 337-237-4775 410-771-4950	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street	(area code & no.)  337-237-4775  410-771-4950  410-841-5552	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories  TestAmerica  IX. CERTIFICATION  I certify under penalty of law that this docum qualified personnel properly gather and evidirectly responsible for gathering the information.	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive Nashville, TN 37204	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295  800-765-0980  ection or supervision in accordance iry of the person or persons who mowledge and belief, true, accurate	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to 04/06)
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories  TestAmerica  IX. CERTIFICATION  I certify under penalty of law that this docum qualified personnel properly gather and evidirectly responsible for gathering the information.	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive Nashville, TN 37204  ment and all attachments were prepared under my directly discountied attachments were prepared under my directly discountied to the information submitted is, to the best of my information, including the possibility of fine and imprisinformation, including the possibility of fine and impris	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295  800-765-0980  ection or supervision in accordance iry of the person or persons who mowledge and belief, true, accurate	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to 04/06)
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories  TestAmerica  IX. CERTIFICATION  I certify under penalty of law that this docum qualified personnel properly gather and evirectly responsible for gathering the informare significant penalties for submitting false.	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive Nashville, TN 37204  ment and all attachments were prepared under my dinaluate the information submitted. Based on my inquation, the information submitted is, to the best of my information, including the possibility of fine and imprising the po	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295  800-765-0980  ection or supervision in accordance iry of the person or persons who knowledge and belief, true, accurate comment for knowing violations.	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to 04/06)
SPL, Inc.  EA Engineering, Science & Technology, Inc.  Quality Environmental Solutions, Inc.  Air Water & Soil Laboratories  TestAmerica  IX. CERTIFICATION  I certify under penalty of law that this docum qualified personnel properly gather and evidirectly responsible for gathering the informare significant penalties for submitting false  A. NAME & OFFICIAL TITLE (type or print)	500 Ambassador Caffery Parkway Scott, LA 70583  15 Loveton Circle Sparks, MD 21152  2521 Riva Road, Suite L3 Annapolis, MD 21401  2109A North Hamilton Street Richmond, VA 23230  2960 Foster Creighton Drive Nashville, TN 37204  ment and all attachments were prepared under my directly discovered by the information submitted. Based on my inqualition, the information submitted is, to the best of my information, including the possibility of fine and imprisal to the operations.	(area code & no.)  337-237-4775  410-771-4950  410-841-5552  804-358-8295  800-765-0980  ection or supervision in accordance iny of the person or persons who knowledge and belief, true, accurate forment for knowing violations.  B. PHONE NO. (area code & no.)	(list)  Laboratory Analytical (04/06 to present)  Annual WET/TMP Analyses  Field pH & Temperature  Hydrostatic Test Samples  Outfall Samples (prior to 04/06)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information EPA I.D on separate sheets (use the same format) instead of completing these pages.

SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item I of Form I) VADO41317876

OUTFALL NO. V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

b. NO. OF ANALYSES (2) MASS 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION VALUE VALUE VALUE pound pounod spunod pounod ponnod b. MASS N/A STANDARD UNITS 3. UNITS (specify if blank) ပ ပ္ a. CONCENTRATION  $mg/\Gamma$ mg/L mg/L mg/L mg/L MGD d. NO. OF ANALYSES 35 35 36 Н  $\vdash$ 2 9  $\infty$ (2) MASS N/A N/A N/A 10 22 VALUE c. LONG TERM AVRG. (if available) 0.19 9 (1) CONCENTRATION 5.57 11.9 N/AN/AN/AVALUE VALUE VALUE 2. EFFLUENT b. MAXIMUM 30 DAY VALUE MAXIMUM N/A (2) MASS N/AN/AN/A N/AN/A (if available) N/AN/AN/ACONCENTRATION N/AN/AN/AMINIMUM N/A N/AN/AVALUE VALUE VALUE MAXIMUM 9.9 a. MAXIMUM DAILY VALUE (2) MASS 11 N 167 17 22 ٧ 0.44 12 28 (1) CONCENTRATION 11.60 9.2 MINIMUM 6.3 Н 89 V V VALUE VALUE VALUE c. Total Organic Carbon (TOC) Biochemical Oxygen b. Chemical Oxygen 1. POLLUTANT d. Total Suspended Solids (TSS) e. Ammonia (as N) g. Temperature (winter) Demand (BOD) h. Temperature Demand (COD) f. Flow i. pH

Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements. PART B-

dua	allitative dat	a or arr expr	quantitiative data or all explanation of their presence in your discharge. Complete one table for each outfail, see the instructions for additional defails and requirements.	serice in your c	alscharge, complete	one table for 6	each outrall, see the	Instructions for	additional deta	alls and requiren	nents.			
		2. MARK "X"			3.	3. EFFLUENT				4. UNITS	LS	5. INTAI	5. INTAKE (optional)	_
1. POLLUTANT AND	ro	نه	a. MAXIMUM DAILY VALUE	ILY VALUE	b. MAXIMUM 30 DAY (if available)	DAY VALUE	b. MAXIMUM 30 DAY VALUE c. LONG TERM AVRG. VALUE (if available)	VRG. VALUE				a. LONG TERM AVERAGE VALUE	VERAGE	
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. MASS CONCENTRATION	(2) MASS	(2) MASS ANALYSES
a. Bromide (24959-67-9)		×												
b. Chlorine, Total Residual		×												
c. Color		×												
d. Fecal Coliform		×												
e. Fluoride (16984-48-8)		×												
f. Nitrate-Nitrite (as N)		×	< 0.01	< 0.02	N/A	N/A	N/A	N/A	1	mg/L	ponnd			

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CONTINUE ON REVERSE

NOTE: Part A data based on 3 years of flow and analytical data - see attached Table

ITEM V-B CONTINUED FROM FRONT

TEM A-D COLUMN TOWN TO THE TEM TO THE THE TEM TO THE TE														
TINATI I I I OG 1		2. MARK "X"			6.	3. EFFLUENT				4. UNITS	LS	5. INT/	5. INTAKE (optional)	0
	ė,	ò.	a. MAXIMUM DAILY VALUE	ILY VALUE	b. MAXIMUM 30 [ ( <i>if availal</i>	AXIMUM 30 DAY VALUE (if available)	c. LONG TERM AVRG. VALUE (if available)	VRG. VALUE	1			a. LONG TERM AVERAGE VALUE	ERM ALUE	
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic ( <i>as</i> <i>N</i> )	×		0.833	1.57	N/A	N/A	A/N	N/A	Н	mg/L	punod			
h. Oil and Grease	×		۷ ت	v 6	N/A	N/A	N/A	N/A	н	mg/L	punod			
i. Phosphorus (as P), Total (7723-14-0)		×	< 0.05	0 .1	N/A	N/A	N/A	N/A	Н	T/Sw	punod			
j. Radioactivity														
(1) Alpha, Total		×												
(2) Beta, Total		×												
(3) Radium, Total		×												
(4) Radium 226, Total		×												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		×												
I. Sulfide (as S)		×												
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)		×												
n. Surfactants		×												
o. Aluminum, Total (7429-90-5)		×												
p. Barium, Total (7440-39-3)		×												
q. Boron, Total (7440-42-8)		×												
r. Cobalt, Total (7440-48-4)		×												
s. Iron, Total (7439-89-6)		×												
t. Magnesium, Total (7439-95-4)		×												
u. Molybdenum, Total (7439-98-7)		×												
v. Manganese, Total (7439-96-5)		×												
w. Tin, Total (7440-31-5)		×												
x. Titanium, Total (7440-32-6)		×												
EPA Form 3510-2C (8-90)	2C (8-90)						PAGE V-2					ŏ	ONTINUE O	CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

VAD041317876

CONTINUED FROM PAGE 3 OF FORM 2-C

- b. NO. OF ANALYSES PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GCMS fractions you must test for. Mark "X" in column 2-a for all such GCMS fractions). The column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you mark column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you mark column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you know or have reason to believe is present. provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for 5. INTAKE (optional) (2) MASS a. LONG TERM AVERAGE VALUE (1) CONCENTRATION punod b. MASS 4. UNITS a. CONCEN-TRATION mg/L d. NO. OF ANALYSES 2 (2) MASS N/A c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION b. MAXIMUM 30 DAY VALUE (2) MASS N/A(if available) (1) CONCENTRATION N/Aa. MAXIMUM DAILY VALUE 02 (2) MASS 0 DESCRIBE RESULTS V (1) CONCENTRATION 01 0 V b. c. c. BELIEVED BELIEVED PRESENT C × × × × × × × × × × × × × × × × additional details and requirements. METALS, CYANIDE, AND TOTAL PHENOLS 2. MARK "X" a. TESTING REQUIRED 1M. Antimony, Total (7440-36-0) 4M. Cadmium, Total (7440-43-9) 3M. Beryllium, Total (7440-41-7) 1. POLLUTANT AND CAS NUMBER 8M. Mercury, Total (7439-97-6) 10M. Selenium, Total (7782-49-2) 11M. Silver, Total 12M. Thallium, Total (7440-28-0) 2M. Arsenic, Total (7440-38-2) 6M. Copper, Total (7440-50-8) 5M. Chromium, Total (7440-47-3) 13M. Zinc, Total (7440-66-6) (if available) 9M. Nickel, Total (7440-02-0) 14M. Cyanide, Total (57-12-5) 7M. Lead, Total (7439-92-1) chlorodibenzo-P-15M. Phenols, 2,3,7,8-Tetra-(7440-22-4)DIOXIN Total

Dioxin (1764-01-6)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

N C		2 MARK "X"	n								VI - V	Ú	IVENIE		
1. POLLUTANT		7				b MAXIMIM 30	30 DAY VALUE	A I ONG TERM	AVPC		4. ONI 0	0	9. INLAR	S. IN LANE (opnonar)	
	сij	ف	ರ	a. MAXIMUM DAILY VAL	핑	(if available)	ble)	VALUE (if available)		L C			AVERAGE VALUE		
(if available)	REQUIRED	BELIEVED	BELIEVED	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	a. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	ASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS	I - VOLATIL	E COMPOU	SONO												
1V. Accrolein (107-02-8)			×	< 50	< 0.1	N/A	N/A	N/A	N/A	П	ng/L	poundg			
2V. Acrylonitrile (107-13-1)			×	09 >	< 0.1	N/A	N/A	N/A	N/A	н	ng/L	spunod			
3V. Benzene (71-43-2)		×		۸ 5	< 0.01	N/A	N/A	N/A	N/A	4	T/6n	pounds			
4V. Bis (Chloro- methyt) Ether (542-88-1)			×												
5V. Bromoform (75-25-2)			×	V V	< 0.01	N/A	N/A	N/A	N/A	н	ng/L	spunod			
6V. Carbon Tetrachloride (56-23-5)			×	Λ Ω	< 0.01	N/A	N/A	N/A	N/A	П	ng/L	spunod			
7V. Chlorobenzene (108-90-7)			×	ν N	< 0.01	N/A	N/A	N/A	N/A	Н	ng/L	pounds			
8V. Chlorodi- bromomethane (124-48-1)			×	N R	< 0.01	A/N	N/A	N/A	N/A	Н	ng/L	pounds			
9V. Chloroethane (75-00-3)			×	< 10	< 0.02	N/A	N/A	N/A	N/A	1	T/6n	spunod			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			×	< 10	< 0.02	N/A	N/A	N/A	N/A	Н	ng/L	spunod			
11V. Chloroform (67-66-3)			×	۷ ک	< 0.01	N/A	N/A	N/A	N/A	Н	ng/L	spunod			
12V. Dichloro- bromomethane (75-27-4)			×	Λ R	< 0.01	N/A	N/A	N/A	N/A	Т	ng/L	spunod			
13V. Dichloro- difluoromethane (75-71-8)			×	^ 5	< 0.01	N/A	N/A	N/A	N/A	П	ug/L	spunod			
14V. 1,1-Dichloro- ethane (75-34-3)			×	ν ω	< 0.01	N/A	N/A	N/A	N/A	Н	ng/L	spunod			
15V. 1,2-Dichloro- ethane (107-06-2)			×	V 2	< 0.01	N/A	N/A	N/A	N/A	Н	ng/L	pounod			
16V. 1,1-Dichloro- ethylene (75-35-4)			×	> 5	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	spunod			
17V. 1,2-Dichloro- propane (78-87-5)			×	۸ تا	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	spunod			
18V. 1,3-Dichloro- propylene (542-75-6)			×	۸ ت	< 0.01	N/A	N/A	N/A	N/A	П	ng/L	pounds			
19V. Ethylbenzene (100-41-4)		×		۸ 5	< 0.01	N/A	N/A	N/A	N/A	4	ng/L	spunod			
20V. Methyl Bromide (74-83-9)			×	< 10	< 0.02	N/A	N/A	N/A	N/A	П	ng/L	spunod			
21V. Methyl Chloride (74-87-3)			×	< 10	< 0.02	N/A	N/A	N/A	N/A	Т	ng/L	spunod			
	000												100	L	ONITINI IE ONI BACE VE

CONTINUED FROM PAGE V-4

	2.	2. MARK "X"				3. E	3. EFFLUENT				4. UNITS	ITS	5. INTAK	5. INTAKE (optional)	
1. POLLUTANT AND	œ	ف	ن	a. MAXIMUM DAILY VAL	ILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE		
CAS NUMBER (if available)	ING RED	VED	BELIEVED ABSENT	(1) CONCENTRATION	(2) MA	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	ASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)	I – VOLATILE	COMPOU	INDS (confi	(рәші,											
22V. Methylene Chloride (75-09-2)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	spunod			
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	П	ng/L	spunod			
24V. Tetrachloro- ethylene (127-18-4)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	poundg			
25V. Toluene (108-88-3)		×		< 5	0.01	N/A	N/A	N/A	N/A	4	ng/L	spunod			
26V. 1,2-Trans- Dichloroethylene (156-60-5)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	н	ng/F	spunod			
27V. 1,1,1-Trichloro- ethane (71-55-6)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	poundg			
28V. 1,1,2-Trichloro- ethane (79-00-5)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	1	ng/L	spunod			
29V Trichloro- ethylene (79-01-6)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	1	ug/L	poundg			
30V. Trichloro- fluoromethane (75-69-4)			×	< 5	< 0.01	N/A	N/A	N/A	N/A	П	ng/L	spunod			
31V. Vinyl Chloride (75-01-4)			×	< 10	< 0.02	N/A	N/A	N/A	N/A	Τ	ng/L	spunod			
GC/MS FRACTION - ACID COMPOUNDS	I - ACID CON	<b>NPOUNDS</b>													
1A. 2-Chlorophenol (95-57-8)			×												
2A. 2,4-Dichloro- phenol (120-83-2)			×												
3A. 2,4-Dimethyl- phenol (105-67-9)			×												
4A, 4,6-Dinitro-O- Cresol (534-52-1)			×												
5A. 2,4-Dinitro- phenol (51-28-5)			×												
6A. 2-Nitrophenol (88-75-5)			×												
7A. 4-Nitrophenol (100-02-7)			×												
8A. P-Chloro-M- Cresol (59-50-7)			×												
9A. Pentachloro- phenol (87-86-5)			×												
10A. Phenol (108-95-2)			×												
11A. 2,4,6-Trichloro- phenol (88-05-2)			×					,							
EPA Form 3510-2C (8-90)	(8-90)						PAGE V-5	: N-5					CONT	CONTINUE ON REVERSE	EVERSE

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	2	2 MARK "X"			3 FFFI LIENT	FNT				OFINITY	O.L.	A FIAL 2	A INITAINE	
1. POLLUTANT					$\vdash$	'ALUE	c. LONG TERM	AVRG.		F		a. LONG TE	ERM	
AND	a.	b.	2, [	a. MAXIMUM DAILY VALUE	$\overline{}$		VALUE (if available)					AVERAGE VALUE		L ()
(if available)	REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION	(2) MASS C	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS	- BASE/NE	UTRAL CC	MPOUNDS	S	1 1	1 1							J	
1B. Acenaphthene (83-32-9)			×											
2B. Acenaphtylene (208-96-8)			×											
3B. Anthracene (120-12-7)			×											
4B. Benzidine (92-87-5)			×											
5B. Benzo ( <i>a</i> ) Anthracene (56-55-3)			×											
6B. Benzo ( <i>a</i> ) Pyrene (50-32-8)			×											
7B. 3,4-Benzo- fluoranthene (205-99-2)			×											
8B. Benzo ( <i>ghi</i> ) Perylene (191-24-2)			×											
9B. Benzo (k) Fluoranthene (207-08-9)			×											
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			×	e e										
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			×											
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			×											
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			×											
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×											
15B. Butyl Benzyl Phthalate (85-68-7)			×											
16B. 2-Chloro- naphthalene (91-58-7)			×			-								
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			×											
18B. Chrysene (218-01-9)			×											
19B. Dibenzo (a,h) Anthracene (53-70-3)			×											
20B. 1,2-Dichloro- benzene (95-50-1)			×											
21B. 1,3-Di-chloro- benzene (541-73-1)			×											
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CONTINUED FROM PAGE V-6

	2	2. MARK "X"				3.	3. EFFLUENT				STINI 7	SEL	Onnoino S INTAKE	- (ontional)	
1. POLLUTANT						b. MAXIMUM 30 DAY VALUE	JAY VALUE	c. LONG TERM	A AVRG.				a. LONG TERM	- (chinama)	
AND CAS NUMBER	a. TECTING	b.	C.	a. MAXIMUM DAILY VA	LUE	(if available)	le)	VALUE (if available)	- 1	ON C	NEONO C		AVERAGE VALUE		L C
(if available)	REQUIRED	PRESENT	ABSENT	NOIT	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION (2	(2) MASS AN	ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	I - BASE/NE	UTRAL CC	MPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			×												
23B. 3,3-Dichloro- benzidine (91-94-1)			×												
24B. Diethyl Phthalate (84-66-2)			×												
25B. Dimethyl Phthalate (131 -11-3)			×												
26B. Di-N-Butyl Phthalate (84-74-2)			×												
27B. 2,4-Dinitro- toluene (121-14-2)			×												
28B. 2,6-Dinitro- toluene (606-20-2)			×												
29B. Di-N-Octyl Phthalate (117-84-0)			×												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			×												
31B. Fluoranthene (206-44-0)			×												
32B. Fluorene (86-73-7)			×												
33B. Hexachloro- benzene (118-74-1)			×												
34B. Hexachlorobutadiene (87-68-3)			×												
35B. Hexachloro-cyclopentadiene (77-47-4)			×												
36B Hexachloro- ethane (67-72-1)			×												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			×												
38B. Isophorone (78-59-1)			×												
39B. Naphthalene (91-20-3)		×		> 10	<0.02	N/A	N/A	N/A	N/A	е	ng/L	pounod			
40B. Nitrobenzene (98-95-3)			×												
41B. N-Nitro- sodimethylamine (62-75-9)			×												
42B. N-Nitrosodi- N-Propylamine (621-64-7)			×												
EPA Form 3510-2C (8-90)	(8-90)						PAGE V-7	V-7					CONTIL	CONTINUE ON REVERSE	VERSE

CONTINUED FROM THE FRONT

c		"\" \" \" \" \" \" \" \" \" \" \" \" \"				0	F1411 - 11111 0					C.	1	L	
1. POLLUTANT	7	Y VANAIN :				S. EFF	-LOEIN	ADIA CINCIL	00///		4. UNII S	2	1NI .6	5. IN I AKE (optional)	
	ä	ė.	ن	a. MAXIMUM DAILY VALUE	Y VALUE	(if available)	)	VALUE (if available)	ailable)	L C	L		AVERAGE VALUE		(
(if available)	TESTING BELIEVED REQUIRED PRESENT	BELIEVED	BELIEVED	MOITA	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS ANALYSES	NALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	I – BASE/NE	EUTRAL CO	MPOUNDS	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			×												
44B. Phenanthrene (85-01-8)			×												
45B. Pyrene (129-00-0)			×												
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			×												
GC/MS FRACTION - PESTICIDES	V - PESTICI	DES													
1P. Aldrin (309-00-2)			×												
2P. α-BHC (319-84-6)			×												
3P. β-BHC (319-85-7)			×												
4P. y-BHC (58-89-9)			×												
5P. 8-BHC (319-86-8)			×												
6P. Chlordane (57-74-9)			×												
7P. 4,4'-DDT (50-29-3)			×												
8P. 4,4'-DDE (72-55-9)			×												
9P. 4,4'-DDD (72-54-8)			×												
10P. Dieldrin (60-57-1)			×												
11P. $\alpha$ -Enosulfan (115-29-7)			×												
12P. β-Endosulfan (115-29-7)			×												
13P. Endosulfan Sulfate (1031-07-8)			×												
14P. Endrin (72-20-8)			×												
15P. Endrin Aldehyde (7421-93-4)			×												
16P. Heptachlor (76-44-8)			×												
EPA Form 3510-2C (8-90)	(8-90)						PAGE V-8	V-8					00	CONTINUE ON PAGE V-9	PAGE V-9

	4. UNITS		a. NO. OF a. CONCEN- ANALYSES TRATION										
100		c. LONG TERM AVRG. VALUE (if available)	(1) a. NO. OF CONCENTRATION (2) MASS ANALYSES										
	3. EFFLUENT		(2) MASS										
VAD041317876	3. E	b. MAXIMUM 30 DAY VALUE (if available)	(1) CONCENTRATION										
VP		a. MAXIMUM DAILY VALUE	(1) CONCENTRATION (2) MASS										
				(pa	×	×	×	×	×	×	×	×	×
27.20	2. MARK "X"	Ġ.	BELIEVED E	DES (continue									
A PAGE V-8	2.		TESTING BELIEVED REQUIRED PRESENT	- PESTICIL									
CONTINUED FROM PAGE V-8		1. POLLUTANT AND	CAS NUMBER (if available)	GC/MS FRACTION - PESTICIDES (continued)	17P. Heptachlor Epoxide (1024-57-3)	18P. PCB-1242 (53469-21-9)	19P. PCB-1254 (11097-69-1)	20P. PCB-1221 (11104-28-2)	21P. PCB-1232 (11141-16-5)	22P. PCB-1248 (12672-29-6)	23P. PCB-1260 (11096-82-5)	24P. PCB-1016 (12674-11-2)	25P. Toxaphene (8001-35-2)

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

EPA Form 3510-2C (8-90)

PAGE V-9

)

### VPDES PERMIT RENEWAL APPLICATION VPDES PERMIT VA0058378 KINDER MORGAN SOUTHEAST TERMINALS, LLC RICHMOND #2 TERMINAL

EPA Form 3510-2C, Line IIB & IIC

## Weather Data from Richmond Airport Weather Station (1948-2005)

Average Annual Rainfall (inches)	43.65
Average Number of Rain Days (> 0.01 inch)	114
Maximum Daily Rainfall (inches-08/12/1955)	8.79

### **Terminal Data**

Total Drainage Area (square feet)	741,094
Loading Rack Drainage Area (square feet)	2,500
Assume 1 Hydrostatic Test/Year (MG)	2.26

### **Terminal Storm-Water Runoff**

Average Flow = Average Annual Rainfall \* Surface Area \* Conversion Factors Average Annual Flow =  $(43.65"/yr) (738,594 ft^2) (1'/12") (7.48 gal/ft^3) (1 MG/10^6 gal)$  Average Annual Flow = 20.10 MG

Average Daily Flow = 20.10 MG/114 days = 0.18 MGD

Maximum Daily Flow = Maximum Daily Rainfall \* Surface Area \* Conversion Factors Maximum Daily Flow = (8.79"/day)  $(738,594 \text{ ft}^2)$  (1'/12")  $(7.48 \text{ gal/ft}^3)$   $(1 \text{ MG/}10^6 \text{ gal})$  Maximum Daily Flow = **4.05 MGD** 

### Loading Rack Storm-Water Runoff

Average Flow = Average Annual Rainfall \* Surface Area \* Conversion Factors Average Annual Flow =  $(43.65"/yr) (2,500 \text{ ft}^2) (1'/12") (7.48 \text{ gal/ft}^3) (1 \text{ MG/}10^6 \text{ gal})$  Average Annual Flow = 0.07 MG

Average Daily Flow = 0.07 MG/114 days = 0.001 MGD

Maximum Daily Flow = Maximum Daily Rainfall \* Surface Area \* Conversion Factors Maximum Daily Flow = (8.79"/day) (2,500 ft²) (1'/12") (7.48 gal/ft³) (1 MG/10<sup>6</sup> gal) Maximum Daily Flow = **0.01 MGD** 

### **Hydrostatic Test Water**

Average of 1.37 MG per year (based on average capacity of the 17 storage tanks with > 420,000 gallon capacity with one hydrostatic test/year)

Average Discharge = 1.37 MG/365 days

Average Discharge = 0.004 MGD

Maximum Discharge = 0.36 MGD (250 GPM)

VPDES PERMIT RENEWAL APPLICATION
VPDES PERMIT VA0058378
KINDER MORGAN SOUTHEAST TERMINALS, LLC
RICHMOND #2 TERMINAL
EPA Form 3510-2C, Part V

Æ	Average Flow	Hd	BOD	COD	T0C	TSS	rrs.	TPH-DRO 8015B	0&G 1664A	Benzene	Toluene	Ethyl Benzene	Xylenes	Naphthalene
(MGD)	- 8	(ns)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
0.04		6.3			5.13	ND (4)	ND (1)	0.24	ND (5)	ND (5)	ND (5)	ND (5)	ND 5)	9.4
0.33		7.8	ν.	0 0	4.75	ND (4)	0.083	ND (0.1)		(A) (I)	(2) CIN	ND (5)	NO 5	
0.35		6.4	,	1.	7.33	4		0.18			(0)	(6)	6	
		No Discharge	a)											
0.17		7.9			6.70	9		ND (0.1)						
0.19		7.4			99.9	2		ND (0.1)						
0.24		7.9			00.9	ND (4)		0.24						
0.24		8.3			4.84	49		0.19						
0.19		8.1			3.97	88		0.12						
0.16		7.2			4.35	20		0.29						
0.09		7.3			3.26	ND (4)		0.23						
0.44		7.5			4.14	8		ND (0.1)						
0.36		6.9			3.99	ND (4)		90.0						
0.40		7.4			4.03	8		0.26						
0.39		7.8			10.70	21		0.73						
0.27		8.9			6.12	ND (4)		0.14						
0.23		8.9			7.85	ND (4)		ND (0.1)						
0.21		8.9			8.23	ND (4)		ND (0.1)						
0.13		8.1			6.97	13		ND (0.1)						8
0.08		7.8			3.88	4		0.14						
0.08		7.7			4.46	9.9		0.42						
0.15		8.9			2.53	12.8		0.32						
0.22		8.2			4.01	10.3		0.24						
0.25		9.8			5.75	42.3		0.68						
0.17		8.3			11.60	4.7		0.54						
0.01		8.7			5.24	2.4		0.30						
0.13		8.4			3.74	9.7		0.34						
0.33		8.1			4.95	1.9		0.28						
0.07		8.7			8.32	7.5		0.49						
0.18		8.7			7.23	7.2		0.44						
0.09		7.9			4.35	8.0		0.28						
0.17		8.1			5.75	5.1		0.33						
0.08		6.6			4.43	23		0.30						
0.13		8.8			5.42	8.8		0.38						
0.14		8.3			3.35	40.3		0.31						
0.19		8.0			5.57	11.9		0.24						
Irostatic	<del>_</del> e	Hydrostatic Test - Tank 5							(S) QN	ND (1)	1.2	ND (1)	(9) QN	ND (10)
Irostatic	_e	Hydrostatic Test - Tank 17	2						ND (5)	ND (1)	ND (1)	ND (1)	(9) QN	ND (10)
									200 400	per may	X A			

EPA ID Number (copy from Item 1 of Form 1) VAD041317876

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

Please print or type in the unshaded areas only.

2F SEPA

U.S. Environmental Protection Agency Washington, DC 20460

# Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

#### Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Branch, PM-223, U.S Affairs, Office of Mana	. Environmenta	al Protection	Agency, 120	9 Pennsylvan	cluding sugge nia Avenue, N	stions which IW, Washin	h may increase or reduce this burden to: gton, DC 20460, or Director, Office of In	Chief, Inform formation and	ation Policy I Regulatory
I. Outfall Location				4.7					
For each outfall, list t	he latitude and	longitude of	ts location to	the nearest 1	5 seconds an	nd the name	of the receiving water.		
A. Outfall Number (list)	E	3. Latitude		С	. Longitude		D. Receiving Wa (name)	ater	
001	37.00	28.00	16.00	77.00	25.00	25.00	James River		
	-								
II. Improvements								THE STATE OF	160 to 100 to 100 to
1. Identification of	Conditions,		2. Affecte				ers, stipulations, court orders, and grant o	4.	Final ance Date
Agreements	, Etc.	number	sou	rce of dischar	rge		Brief Description of Project	a. req.	b. proj.
N/A									
			1						1

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

### III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

### Continued from the Front IV. Narrative Description of Pollutant Sources A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall. Total Area Drained Outfall Area of Impervious Surface Total Area Drained Outfall Area of Impervious Surface Number Number (provide units) (provide units) (provide units) (provide units) 001 350,000 square feet 741,094 square feet B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are The Kinder Morgan Richmond 2 Terminal is a storage and distribution facility for petroleum products including gasoline, ethanol, naphtha, petroleum distillates kerosene, diesel fuel and heating oil, and asphalt products. Products are stored in aboveground storage tanks within containment diked areas. Products are distributed by transport vehicles. Product pumping, loading and unloading activities at the rack represent the greatest likelihood of exposure to storm water. Storm-water runoff from the rack area is directed to an oil/water separator followed by activated clay and carbon treatment prior to flow into the settling/fire pond. Site runoff outside the loading rack area is also directed to the settling pond prior to manual discharge to the James River on an as needed basis. Regular inspections, good housekeeping practices, maintenance and repair, spill prevention and response, and employee training are practices and techniques employed to minimize contact between petroleum products and storm water. The locations of the storage tanks, loading rack, settling pond and other site features are shown on products and storm water. The locations of the storage tanks, loading rack, settling pond and other site features are shown on the attached Site Plan. Pesticides, herbicides, soil conditioners and fertilizer are not used in significant quantities. C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge. Outfall List Codes from Number Treatment Table 2F-1 Storm-water runoff flows to the facility settling/fire pond prior to manual discharge through Outfall 001 on an as needed basis. Storm-waterfrom the loading rack area is directed to an 001 1-U, XX, 1-C, 2-A oil/water separator with subsequent activated clay and carbon treatment prior to discharge into the settling pond. V. Nonstormwater Discharges A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall. Name and Official Title (type or print) Signature Date Signed David Hildreth, Director, Field Ops 12/14/2007 B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test. Evaluation is based on site engineering and operator knowledge and facility construction and operation records. storm-water discharges are identified on Form 2C (hydrostatic test water). VI. Significant Leaks or Spills Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released. There is an active VADEO Storage Tank Program case that is the responsibility of the previous site owner.

Continued	from	Dago	2
Commueu	11 0111	raye	4

EPA ID Number (copy from Item 1 of Form 1) VAD041317876

VII. Discharge Information									
	oceeding. Complete one set of tables for each outfall re included on separate sheets numbers VII-1 and VI		ate the outfall number in the s	pace provided.					
	analysis – is any toxic pollutant listed in table 2F-2 ermediate or final product or byproduct?	, 2F-3,	or 2F-4, a substance or a c	component of a substance which you					
Yes (list all such pollutants b	pelow)		No (go to Section IX)						
VIII. Biological Toxicity Testing D	Data								
	believe that any biological test for acute or chronic to years?	xicity ha	as been made on any of your  No (go to Section IX)	r discharges or on a receiving water in					
Annual acute toxicity testing is	completed in accordance with the exist: st solutions are completed annually ut:	ing VP	DES permit conditions	. The					
12/07 test results not yet avail 12/06 48-hour LC50 for c. dubia 12/05 48-hour LC50 for c. dubia	was > 100%								
IX. Contract Analysis Information	were the common than the south of the common than the common to the common than the common tha		<b>国际的</b>	2000年10日 1000年10日 1000年100年10日 1000年10日 1000年10					
✓ Yes (list the name, address,	VII performed by a contract laboratory or consulting and telephone number of, and pollutants	firm?	No (go to Section X)						
analyzed by, each such i		$\dashv$	Aron Codo & Dhone No	D. Pollutants Analyzed					
SPL, Inc. 500 Ambassador Caffery Parkway 337-237-4775 Laboratory Analytical									
	Scott, LA 70583			(04/06 to present)					
EA Engineering, Science & Technology, Inc.	15 Loveton Circle Sparks, MD 21152	410	0-771-4950	Annual WET/TMP Analyses					
Quality Environmental Solutions, Inc.	2521 Riva Road, Suite L3 Annapolis, MD 21401	410	0-841-5552	Field pH & Temperature					
Air Water & Soil Laboratories	2109A North Hamilton Street Richmond, VA 23230	804	4-358-8295	Hydrosatic Test Samples					
TestAmerica	2960 Foster Creighton Drive Nashville, TN 37204	800	0-765-0980	Outfall Samples (prior to 04/06)					
X. Certification		A P							
that qualified personnel properly gather and directly responsible for gathering the infor-	ument and all attachments were prepared under my d evaluate the information submitted. Based on my mation, the information submitted is, to the best of g false information, including the possibility of fine ar	inquiry o my kno	of the person or persons who owledge and belief, true, acc	manage the system or those persons curate, and complete. I am aware that					
A. Name & Official Title (Type Or Print)		B. Area	a Code and Phone No.						
David Hildreth, Director,	Field Operations	(770	751-4000						
C. Signature	LEG		e Signed 4/2007						

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

### VII. Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

		um Values ude units)		erage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	< 5 mg/L	N/A	< 5 mg/L	N/A	1.00	Bulk Petroleum Storage/Distribution
Biological Oxygen Demand (BOD5)	< 6 mg/L	N/A	< 6 mg/L	N/A	1.00	Natural Processes
Chemical Oxygen Demand (COD)	9.2 mg/L	N/A	9.2 mg/L	N/A	1.00	Natural Processes
Total Suspended Solids (TSS)	89 mg/L	N/A	11.9 mg/L	N/A	35.00	Natural Processes
Total Nitrogen	0.833 mg/L	N/A	0.833 mg/L	N/A	1.00	Natural Processes
Total Phosphorus	< 0.05 mg/L	N/A	< 0.05 mg/L	N/A	1.00	Natural Processes
pН	Minimum 6.30	Maximum 9.90	Minimum 8.00	Maximum 8.00	35.00	Natural Processes

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

		num Values lude units)	Ave (ir	erage Values aclude units)	Number								
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants							
TPH-DRO	0.73 mg/L	N/A	0.24 mg/L	N/A	35.00	Bulk Petroleum Storage/Distribution							
TSS	89 mg/L	N/A	11.9 mg/L	N/A	35.00	Natural Processes							
TOC	11.60 ug/L	N/A	5.57 ug/L	N/A	35.00	Natural Processes							
рн	9.9 su	N/A	8.0 su	N/A	35.00	Natural Processes							
			-										

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

	(inclu	um Values ide units)	(in	erage Values oclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Benzene	< 5 ug/L	N/A	< 5 ug/L	N/A	4.00	Bulk Petroleum Storage/Distribution
Toluene	< 5 ug/L	N/A	< 5 ug/L	N/A	4.00	Bulk Petroleum Storage/Distribution
E. Benzene	< 5 ug/L	N/A	< 5 ug/L	N/A	4.00	Bulk Petroleum Storage/Distribution
Naphthalen	< 10 ug/L	N/A	< 10 ug/L	N/A	3.00	Bulk Petroleum Storage/Distribution
					2	

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4.  Number of hours between beginning of storm measured and end of previous measurable rain event	5.  Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
N/A - No flow weighted composite sampling					

<sup>7.</sup> Provide a description of the method of flow measurement or estimate.

Flow data based on monthly rainfall data from the Richmond Airport weather station. Flows are estimated based on maximum and average monthly rainfall over the paved areas and tank field diked area.

VPDES PERMIT RENEWAL APPLICATION VPDES PERMIT VA0058378 KINDER MORGAN SOUTHEAST TERMINALS, LLC RICHMOND #2 TERMINAL

EPA Form 3510-2F, Part VII

	Naphthalene	(ng/L)	9.4																																				
	Xylenes	(ng/L)	ND (5)		ND (5)																																		
Ethv	Benzene	(ng/L)	ND (5)		ND (5)																																		
	Toluene	(ng/L)	(2) QN		ND (5)																																		
	Benzene	(ng/L)	ND (5)		ND (5)																																		
	TOC	(mg/L)	5.13	4.75	4.85	7.33		6.70	99.9	00.9	4.84	3.97	4.35	3.26	4.14	3.99	4.03	10.70	6.12	7.85	8.23	6.97	3.88	4.46	2.53	4.01	5.75	11.60	5.24	3.74	4.95	8.32	7.23	4.35	5.75	4.43	5.42	3.35	2.57
Total	Phosphorous	(mg/L)	ND (0.05)																																				
	TKN	(mg/L)	0.77																																				
Nitrate-	Nitrite	(mg/L)	ND (0.01)																																				
Total	Nitrogen	(mg/L)	0.833																																				
	TSS	(mg/L)	ND (4)	ND (4)	ND (4)	4		9	2	ND (4)	49	88	20	ND (4)	80	ND (4)	80	21	ND (4)	ND (4)	ND (4)	13	4	9.9	12.8	10.3	42.3	4.7	2.4	9.7	1.9	7.5	7.2	8.0	5.1	23	8.8	40.3	11.9
	COD	(mg/L)			9.5																																		
	BOD	(mg/L)			9 >																																		
0&G	1664A	(mg/L)	ND (5)																																				
	Hď (	(ns)	6.3	7.8	7.7	6.4	No Discharge	7.9	7.4	7.9	8.3	8.1	7.2	7.3	7.5	6.9	7.4	7.8	8.9	8.9	8.9	8.1	7.8	7.7	8.9	8.2	8.6	8.3	8.7	8.4	8.1	8.7	8.7	7.9	8.1	6.6	8.8	8.3	8.0
	Sample Date		November-07	October-07	September-07	August-07		June-07	May-07	April-07	March-07	February-07	January-07	December-06	November-06	October-06	September-06	August-06	July-06	June-06	May-06	April-06	March-06	February-06	January-06	December-05	November-05	October-05	September-05	August-05	July-05	June-05	May-05	April-05	March-05	February-05	January-05	December-04	Averages

ND = None Detected (Reporting Limit in parentheses)